

Scanning Film

with CanoScan D1230U/D2400U Scanners

Canon

The film adapter unit makes it possible to scan positive and negative 35 mm, 120 and 4"x5" format films on CanoScan D1230U/D2400U.

The CanoScan D2400U scanner features "Remove Dust and Scratches" function for film scanning.

For scanner instructions, please see the CanoScan D1230U/D2400U

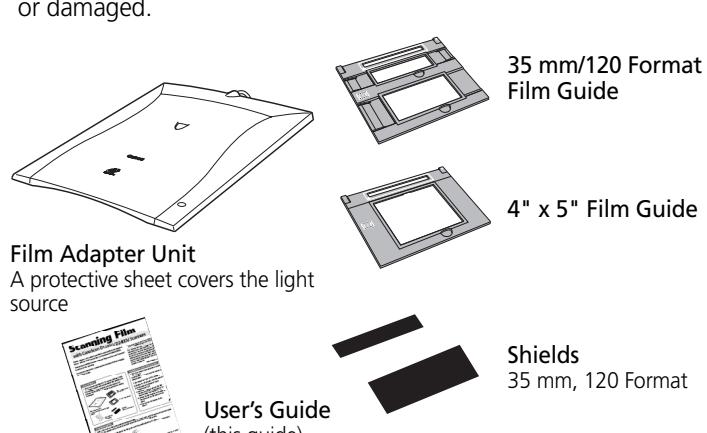
Quick Start Guide.

User's Guide for Film Adapter Unit FAU-S12/FAU-S13

List of Items

- These items are contained in the scanner package if you purchased a model with a preinstalled film adapter unit.

The following items are included in the film adapter unit package. Please contact your retailer if any items are missing or damaged.



"Remove Dust and Scratches" Function

(CanoScan D2400U equipped with FAU-S13)

The "Remove Dust and Scratches" function works by scanning films with a white light from a cold-cathode fluorescent lamp first, then scanning with infrared light. Since the clean portions of the film are translucent to infrared rays, the dirt and scratches are easily detected and the driver software can retouch the affected portions of the film. Please note that scanning with this function takes longer because it requires an extra pass. We do not recommend using this function with KODACHROME* films. It does not work with black and white films (positive or negative).

* KODACHROME is a registered trademark of Eastman Kodak Company.

Warnings

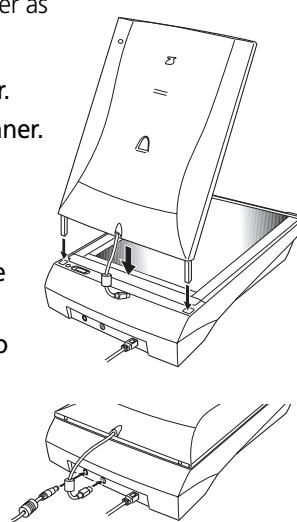
- Film Adapter Unit FAU-S12 is for exclusive use with CanoScan D1230U scanners. Film Adapter Unit FAU-S13 is for exclusive use with CanoScan D2400U scanners. Neither unit can be used with other scanners.
- The film adapter unit contains a lamp unit and other delicate components. Be extremely careful not to drop or bang it.
- Do not place any items on top of the film adapter unit or press down on it.

Installation onto the Scanner

- Start from Step 5 if you purchased a model with a preinstalled film adapter unit.

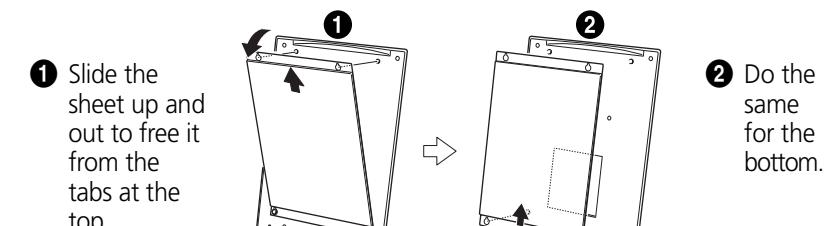
Install the film adapter unit onto the scanner as shown below.

- Shut down and turn off the computer.
- Unplug the AC adapter from the scanner.
- Lift the scanner's document cover straight up and off.
- Insert the two hinge pins on the film adapter unit into the two holes in the scanner body from straight above.
- Attach the film adapter unit's cable to the connector on the scanner's rear panel.
- Connect the AC adapter to the scanner.



Removing the Protective Sheet

The film adapter unit is equipped with a protective sheet for the light source. Remove this sheet before scanning films.



Replace the protective sheet over the light source when not scanning films. Non-film items can be scanned with the protective sheet in place. Avoid pressing down heavily on the film adapter unit to scan thick books or three-dimensional objects. Pressing on it may damage the light source.

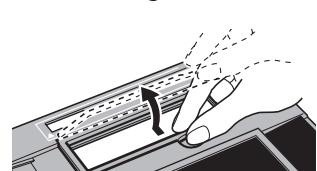
Installation Procedure

- Align the sheet's bottom holes over the tabs on the film adapter unit and slide the sheet down.
- Align the top holes and slide the sheet down into place.

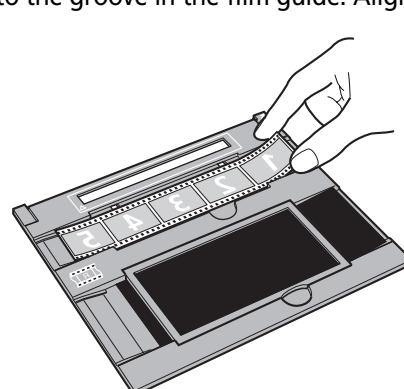
Positioning Film

Load a film into the film guide as shown below and place the loaded guide onto the scanner's document glass (platen). The procedures are the same for both 35mm/120 format and 4"x5" film guides.

- Insert a fingernail into the slot in the film guide and lift up while pinching the edge of the flap inward.

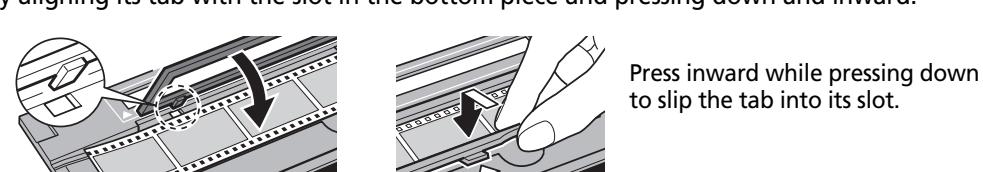


- Place the film face down into the groove in the film guide. Align the first frame's right side with the ▼ mark on the film guide.

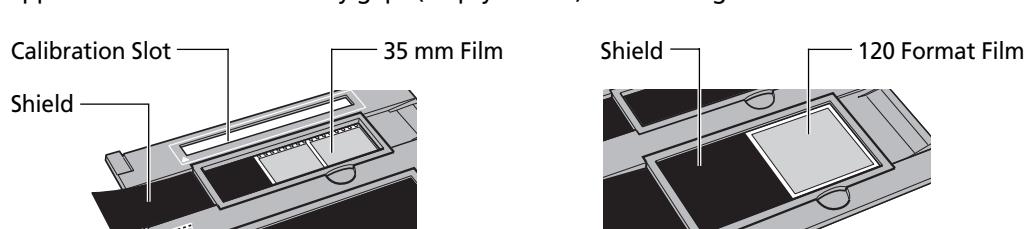


- Hold the film by the edges with your fingertips to avoid getting fingerprints or dirt on the film surface.
- Any dust on the film, scanner document glass or film adapter unit light source will show in the scanned images. Remove dust with a blower brush.
- With CanoScan D2400U and FAU-S13, the small dust or scratches on the film can be removed. Please see the instructions on the back of this sheet.

- Close the flap by aligning its tab with the slot in the bottom piece and pressing down and inward.



- Use the supplied shields if there are any gaps (empty frames) in the film groove.

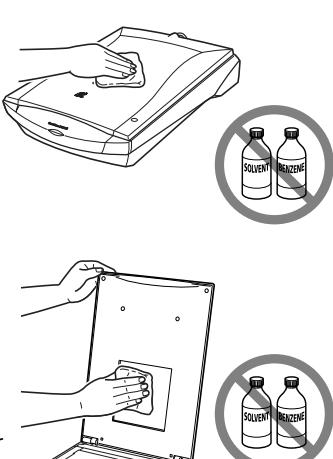


Care and Maintenance

Dampen a soft, clean cloth and wring it well before wiping dust and dirt off the exterior (upper surface).

- Never apply a soaping wet cloth or spray water or soap directly onto the film adapter unit. The liquid could penetrate the interior and either diminish image quality or damage the unit.
- Never use alcohol, solvents or benzene. These substances may deform, discolor or melt the casing.

Use a blower brush to blow dust off the document glass or light source, or wipe them lightly with a soft, dry cloth.



- Never wipe forcefully. It will scratch the surfaces.
- Never use alcohol, solvents or benzene. These substances may deform, discolor or melt the document glass or light source.

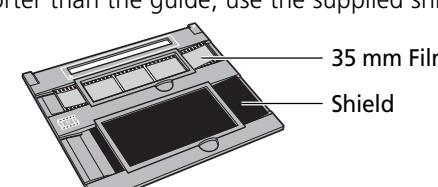
FAU-S12/FAU-S13 Specifications

Supported Film:	35 mm film strips (scanning max. 3 frames), 35 mm slides, 120 format film (max. 12 x 6 cm), 4" x 5" film (supports both positives and negatives) • 6-frame 35 mm film strips fit into the film guide
Scanning Speed FAU-S12:	3.6-101.2 msec/line (automatically selected to suit film type)
FAU-S13:	4.5-162.0 msec/line (automatically selected to suit film type)
Remove Dust and Scratches Function:	Supported by the FAU-S13
Film Scan Button:	Button on film adapter unit top starts ScanGear Toolbox or CanoScan Toolbox
Operating Environment:	Temperature: 10-35 °C (50-95 °F) Humidity: 20%-80% RH (without condensation)
Light Source:	Cold-cathode fluorescent lamp
Power Supply:	Supplied by scanner
Dimensions (w x l x h):	285 x 410 x 31 mm (11.2 x 16.1 x 1.2 in.)
Weight:	Approx. 1.1 kg (2.4 lbs.)
Other specifications correspond to those for the scanner.	

Halation

If film is loaded into a film guide with gaps around it, the bordering areas on the scanned image may be discolored. This phenomenon is called halation and is particularly noticeable with negative film. To avoid it, position the film in the guide with no gaps between the film and guide. If the film strip is shorter than the guide, use the supplied shield to fill the gap.

Place the shield in the 120 format film groove when you scan 35 mm film strips and vice versa.



Newton Rings

Portions of films with curled edges and large format films, such as 4" x 5" film, may adhere to the document glass and produce ring patterns (termed Newton rings) on the scanned image. If Newton rings appear, load the film upside down in the guide and reverse the scanned image later with the driver software or an application program.

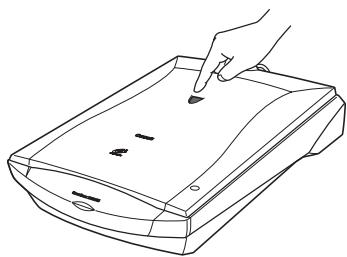
Film Scanning Procedures (Windows)

1. Procedures with the Film Scan Button (ScanGear Toolbox)

Only 35 mm film can be scanned with this method. The fax and email functions cannot be used.

Copying (Printing) Example

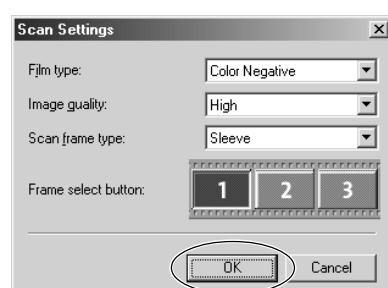
- Press the Film Scan Button on the top of the film adapter unit.



- Click the [Copy] button.

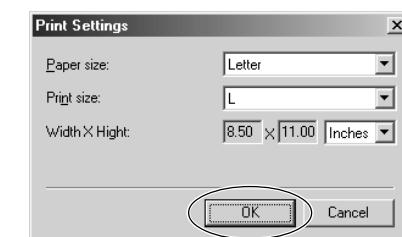


- Select a Film type, Image quality, Scan frame type, and a frame for scanning (35 mm film strips) and click the [OK] button.



- Frame Button No. 1 corresponds to the frame at the extreme right of the film guide.

- Select the Paper size and Print size and click the [OK] button.



- Set the number of copies and click the [OK] button.

- The printer will print out the scanned images.

- The scanned size of an image is slightly smaller than its frame size.
- Up to three frames of 35 mm film can be scanned consecutively. Set the number of frames to be scanned with the Frame Selection buttons. Please note that with certain films the gaps between frames may be included with the images in consecutive scans. If this happens, scan frames singly.
- In the Print size category, you can select between the L, LL, postcard, etc.

- For more detailed instructions, please refer to the *ScanGear Toolbox User's Guide* (electronic manual) on the CD-ROM.

2. Procedures without the Film Scan Button (ScanGear Toolbox Not Used)

All three film types, 35 mm film, 120 format and 4"x5" format films, can be scanned using this method.

- Start ScanGear CS-U from within an application program according to the instructions in the *Quick Start Guide*.



This illustration shows the Simple Mode.

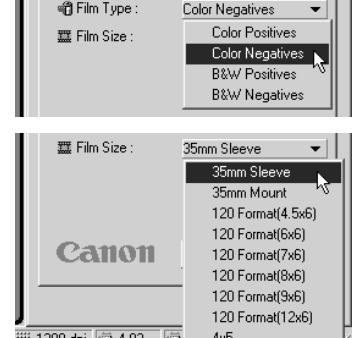
- In the [Image Source] category, select [Film].



- In Advanced Mode, you can set the film settings by clicking the [D1230U] or [D2400U] tab.

- Select the film type and film size of the loaded film.

- The Film Type and Film Size categories appear when the film option is selected in Step 2.

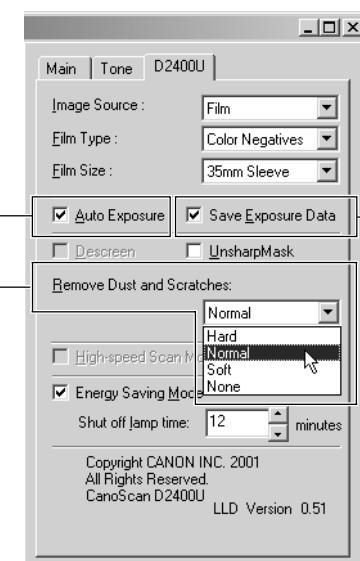


Convenient Features of the Driver Software (ScanGear CS-U)

These settings can be adjusted in the Advanced Mode's [D1230U] or [D2400U] tab.

Auto Exposure

Automatically adjusts the exposure compensation to an optimal value.



Save Exposure Data
Saves the exposure data for a particular frame, making it available for scanning subsequent frames.

Remove Dust and Scratches (CanoScan D2400U)

Removes small dirt spots or scratches. Scan between 25-2400 dpi scanning resolution.

After adjusting the film settings, initiate the scan according to the instructions in the *Quick Start Guide*.

Film Scanning Procedures (Macintosh)

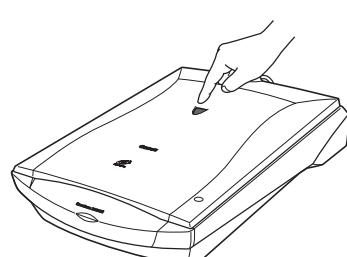
1. Procedures with the Film Scan Button (CanoScan Toolbox)

(1) Procedures without Displaying Canon Plug-in Module CS-U

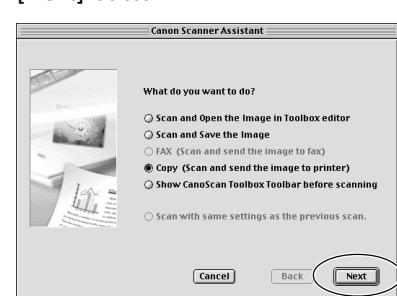
- Only 35 mm film can be scanned using this method. The fax function cannot be used.

Copying (Printing) Example

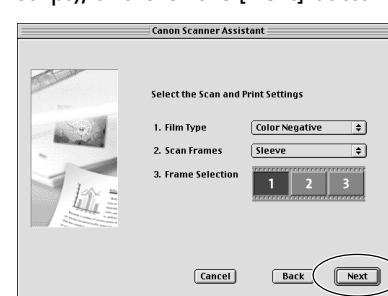
- Press the Film Scan Button on the top of the film adapter unit.



- The Canon Scanner Assistant will appear. Select [Copy] and click the [Next] button.

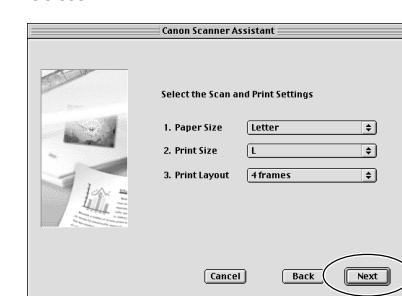


- Select a Film Type, Scan Frames, and a frame for scanning (for 35 mm film strips), and click the [Next] button.



- Frame Button No. 1 corresponds to the frame at the extreme right of the film guide.

- Select the Paper Size, Print Size and Print Layout, and click the [Next] button.

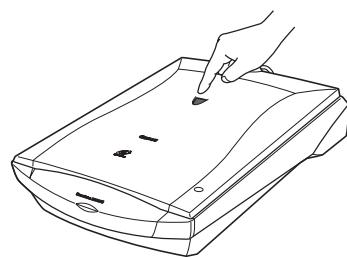


- The scanned size of an image is slightly smaller than its frame size.
- Up to three frames of 35 mm film can be scanned consecutively. Set the number of frames to be scanned with the Frame Selection buttons. Please note that with certain films the gaps between frames may be included with the images in consecutive scans. If this happens, scan frames singly.
- In the Print size category, you can select between the L, LL, postcard, etc.

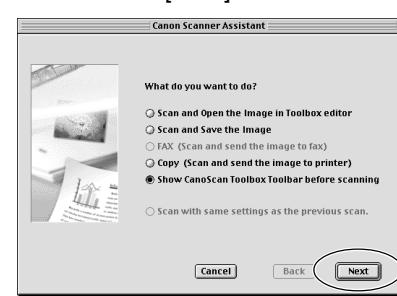
- For more detailed instructions, please refer to the *CanoScan Toolbox User's Guide* (electronic manual) on the CD-ROM.

(2) Procedures Displaying Canon Plug-in Module CS-U

- Press the Film Scan Button on the top of the film adapter unit.



- The Canon Scanner Assistant will appear. Select [Show CanoScan Toolbox Toolbar before scanning], and click the [Next] button.



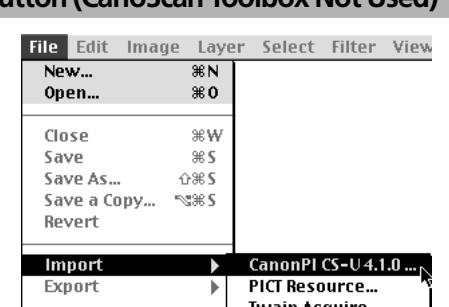
- In the toolbar that displays, click [Scan].



Canon Plug-in Module CS-U will start.

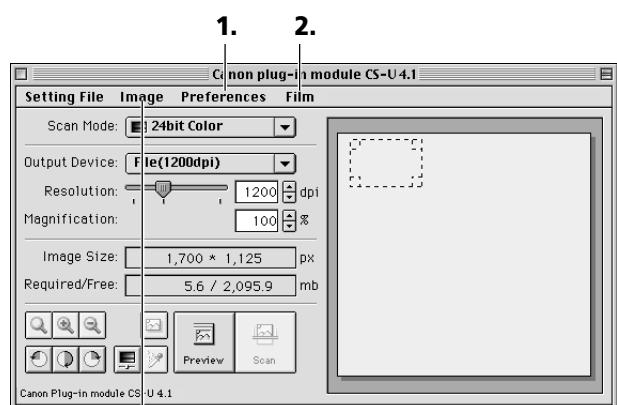
2. Procedures without the Film Scan Button (CanoScan Toolbox Not Used)

- Start Canon Plug-in Module CS-U from within an application program according to the instructions in the *Quick Start Guide*.

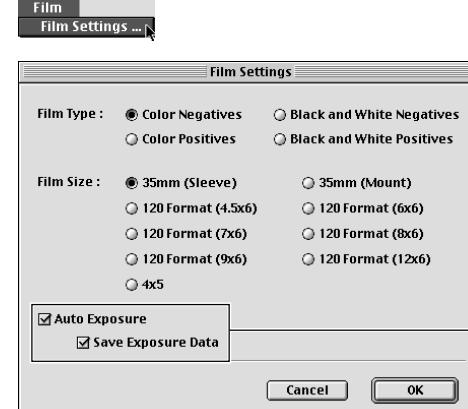


Settings for Scanning Film with the Driver Software (CanoScan Toolbox CS-U)

- All three film types, 35 mm film, 120 format and 4"x5" format films, can be scanned using this method.
- Display the Film menu by clicking the [Preferences] menu and selecting [Film].



- Click the [Preferences] menu and select [Film].



- Select the Film Type and Film Size of the loaded film.

Convenient Features of the Driver Software (CanoScan Toolbox CS-U)

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Automatically adjusts the exposure compensation to an optimal value.

Save Exposure Data

Saves the exposure data for a particular frame, making it available for scanning subsequent frames.

Remove Dust and Scratches (CanoScan D2400U)

Removes small dirt spots or scratches. Scan between 25-2400 dpi scanning resolution.



- For more detailed instructions, please refer to the *CanoScan Toolbox User's Guide* (electronic manual) on the CD-ROM.

After adjusting the film settings, initiate the scan according to the instructions in the *Quick Start Guide*.